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Applicant's or agent's file reference Applicant's or agent's file reference MEDIASOL 0.022 International application No. Dot or mailing dute (day/month/year) Determinational application No. Determinational filing dute (day/month/year) Priority date (day/month/year) OG January 2004 (06.01.2004) Elemational Fatent Classification (PC) or both national classification and IPC PC(7): G06F 7/04,1/730,006K 9/00 and US Cl.: 726/32 Applicant MEDIASEC TECHNOLOGIES, GMBH 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. IV Lack of unity of invention Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis. 1(a)(f) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement Box No. V Certain defects in the international application Box No. VI Certain observations on the international application 2. FURTHER ACTION If a denand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority of ther than this one to be the IPEA and the chosen PEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this international Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written opinions of the Searching Authority will not be considered. In this opinion is, as provided above, considered to be a written opinion of the Opinion of Form PCT/ISA/120. 3. For further details, see notes to Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/ US	rom the	AN PINT			
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1. With r	regard to the language, this opinion has been established on the basis of:
	the international application in the language in which it was filed a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With invent	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Add	litional comments:
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Form PCT/ISA/237 (Box No. V) (April 2005)

International application No. PCT/US05/00201

applicability; citations and expla	43 <i>bis</i> .1(a)(i) with regard to novelty, invent nations supporting such statement	
Statement	•	
Novelty (N)	Claims NONE	YES
TADACTER (TA)	Claims 1-54	NO
		YES
Inventive step (IS)	Claims NONE	NO
	Claims <u>1-54</u>	
Industrial applicability (IA)	Claims <u>1-54</u>	YES
manana altanonomic (m.)	Claims NONE	NO
•		
Citations and explanations:		
ease See Continuation Sheet		
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International application No. PCT/US05/00201

Supplemental Box In case the space in any of the preceding boxes is not sufficient.

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V. 2. Citations and Explanations: Claims 1-54 lack novelty under PCT Article 33(2) as being anticipated by Zeller et al., (U.S. Publication 2003/0156733 and Zeller hereinafter).

Regarding claims 1-19 and 40-41, Zeller discloses a method of creating a digital authentication pattern that contains a message, the digital authentication pattern belonging to a digital representation and the method comprising the steps of: Selecting sets of pattern elements belonging to the digital authentication pattern to carry message elements of the message, and for each selected set, setting the values of the pattern elements in the set to carry the message element such that the digital authentication pattern's ability to detect copying remains substantially unchanged (Par. 0029-0047).

Regarding claims 20-39 and 52, Zeller discloses a method of reading a message whose values have been inserted into sets of pattern elements in a digital authentication pattern belonging to a digital representation, the method comprising the steps

Selecting sets of pattern elements belonging to the digital authentication pattern that carry message elements of the message, and for each selected set, comparing the set with equivalent sets that have a possible value of the message element to determine the value of the message element in the selected set (Par. 0115-0160).

Regarding claim 42, Zeller discloses a method of determing whether an analog form that includes a copy detection pattern is an original analog form, the method comprising the steps of:

Scanning the copy detection pattern to produce a digital representation thereof, and using one or more global properties of the digital representation of the scanned copy detection pattern to make at least a preliminary determination of whether the analog form is an originalanalog form, the preliminary determination being made without reference to a digital representation of the original of the analoge form's copy detection pattern (Par. 0033-0047).

Regarding claim 43, Zeller discloses a method of determining a copying relationship between digital representations, each of the digital representations including a portion that is sensitive to alteration produce by a copying process and the method comprising the steps of: Modifying a portion to make the portion more comparable with the other portion by taking the alterations into account, and

comparing the portions to determine the copying relationship (Par. 0094-0106).

Regarding claim 44-51, Zeller discloses a visual authentication pattern for a document, the visual authentication pattern having high entropy and being sensitive to the effects of print and scan operations and being characterized in that: the visual authentication pattern is subdivided into units which are distributed across the document (Par. 0029-0047).

International application No. PCT/US05/00201

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Supplemental Box In case the space in any of the preceding boxes is not sufficient. Regarding claim 53, Zeller discloses a digital representation of an analog signal, the digital representation being characterized in that: the digital representation of a copy detection signal that is sensitive to transformations produced by digital-to-analog and analog-to-digital conversions whereby the representation of the copy detection signal may be used to determine whether another digital representation of the analog signal was made by digitizing an analog signal produced from the digital representation (Par. 0189-0198). Regarding claim 54, Zeller discloses a digital representation characterized in that: the digital representation includes a first portion wherein the data has error correction and second portion wherein the data has no error correction and the data is sensitive to alterations produced by the process of making a digital copy of the digital representation, whereby the second portion may be used to determine a copy relationship between a digital representation and another digital representation (Par. 0141-0159).

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	RITY			
To:			PCT	REC'D 0 6 MAR 2006
GORDON E. NELSON 57 CENTRAL STREET, P.O. BOX 782				
ROWLEY, MA 01969		WRIT	TEN OPINION C) P 平日宝
_		INTERNATION	AL SEARCHING	JAUINOMII
	•		(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	01 м	AR 2006
Applicant's or agent's file reference		FOR FURTHER AC	e paragraph 2 below	AN LUUD
MEDIAS01.022				Al (1 mm)
International application No.	International filing date		Priority date (day/mor	
PCT/US05/00201	06 January 2005 (06.01	<u> </u>)6 January 2004 (06.0)1.2004)
International Patent Classification (IPC) of	r both national classifica	tion and IPC		
PC(7): G06F 7/04,17/30;G06K 9/00 and	US Cl.: 726/32			
Applicant				
MEDIASEC TECHNOLOGIES, GMBH				
1. This opinion contains indications rela	ating to the following iter	ms:		
Box No. I Basis of the	opinion			·
Box No. II Priority				
Box No. III Non-establi	shment of opinion with	regard to novelty, invent	ive step and industria	l applicability
	ity of invention	·.		
Box No. V Reasoned s applicabilit	tatement under Rule 43b y; citations and explanat	ois.1(a)(i) with regard to ions supporting such sta	novelty, inventive ste tement	p or industrial
Box No. VI Certain doc	cuments cited		•	
Box No. VII Certain def	fects in the international	application		
Box No. VIII Certain ob	servations on the international	tional application		
2. FURTHER ACTION				
2. FURTHER ACTION If a demand for international preliminary Examinity of the preliminary Examinity of the preliminary of the p	ng Aumonly (IFEA)	en IPEA has notified th	e International Burea	a written opinion of the applicant chooses an under Rule 66.1 bis(b)
If this opinion is, as provided about PEA a written reply together, who of Form PCT/ISA/220 or before the				
For further options, see Form PCT/		•		
3. For further details, see notes to For	m PCT/ISA/220.			
	TIE Date of com	pletion of this opinion	Authorized officer	
Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	01 February	y 2006 (01.02.2006)	300	R. Mithers 11) 272-3795
Alexandria, Virginia 22313-1450			Telephone No. (5)	1) 414-3173

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.
PCT/US05/00201

International application No. PCT/US05/00201

ox No. V Reasoned statement under Kule applicability; citations and expla	43 bis.1(a)(i) with regard to novelty, inventive nations supporting such statement	
Statement	• •	
Marialtic AD	Claims NONE	YES
Novelty (N)	Claims 1-54	NO
Inventive step (IS)	Claims NONE	YES
MACHINO Stob (10)	Claims <u>1-54</u>	NO
	•	VEC
Industrial applicability (IA)	Claims <u>1-54</u>	YES NO
	Claims NONE	
. Citations and explanations:		
Please See Continuation Sheet		
JC92C DCC CONTINUATION PROOF		
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Form PCT/ISA/237 (Box No. V) (April 2005)

International application No. PCT/US05/00201

Supplemental Box	
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V. 2. Citations and Explanations:
Claims 1-54 lack novelty under PCT Article 33(2) as being anticipated by Zeller et al., (U.S. Publication 2003/0156733 and Zeller hereinafter).

Regarding claims 1-19 and 40-41, Zeller discloses a method of creating a digital authentication pattern that contains a message, the digital authentication pattern belonging to a digital representation and the method comprising the steps of: Selecting sets of pattern elements belonging to the digital authentication pattern to carry message elements of the message, and for each selected set, setting the values of the pattern elements in the set to carry the message element such that the digital authentication pattern's ability to detect copying remains substantially unchanged (Par. 0029-0047).

Regarding claims 20-39 and 52, Zeller discloses a method of reading a message whose values have been inserted into sets of pattern elements in a digital authentication pattern belonging to a digital representation, the method comprising the steps

Selecting sets of pattern elements belonging to the digital authentication pattern that carry message elements of the message, and for each selected set, comparing the set with equivalent sets that have a possible value of the message element to determine the value of the message element in the selected set (Par. 0115-0160).

Regarding claim 42, Zeller discloses a method of determing whether an analog form that includes a copy detection pattern is an original analog form, the method comprising the steps of:

Scanning the copy detection pattern to produce a digital representation thereof, and using one or more global properties of

Scanning the copy detection pattern to produce a digital representation thereof, and using one or more global properties of the digital representation of the scanned copy detection pattern to make at least a preliminary determination of whether the analog form is an original analog form, the preliminary determination being made without reference to a digital representation of the original of the analoge form's copy detection pattern (Par. 0033-0047).

Regarding claim 43, Zeller discloses a method of determining a copying relationship between digital representations, each of the digital representations including a portion that is sensitive to alteration produce by a copying process and the method comprising the steps of:

Modifying a portion to make the portion more comparable with the other portion by taking the alterations into account, and comparing the portions to determine the copying relationship (Par. 0094-0106).

Regarding claim 44-51, Zeller discloses a visual authentication pattern for a document, the visual authentication pattern having high entropy and being sensitive to the effects of print and scan operations and being characterized in that: the visual authentication pattern is subdivided into units which are distributed across the document (Par. 0029-0047).

International application No. PCT/US05/00201

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In case the space in any of the preceding boxes is not sufficient.

Regarding claim 53, Zeller discloses a digital representation of an analog signal, the digital representation being characterized in that: the digital representation of a copy detection signal that is sensitive to transformations produced by digital-to-analog and analog-to-digital conversions whereby the representation of the copy detection signal may be used to determine whether another digital representation of the analog signal was made by digitizing an analog signal produced from the digital representation (Par. 0189-0198).

Regarding claim 54, Zeller discloses a digital representation characterized in that: the digital representation includes a first portion wherein the data has error correction and second portion wherein the data has no error correction and the data is sensitive to alterations produced by the process of making a digital copy of the digital representation, whereby the second portion may be used to determine a copy relationship between a digital representation and another digital representation (Par. 0141-0159).

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	<i>T</i>		1	
To:			PCT	REC'D 0 6 MAR 2006
GORDON E. NELSON 57 CENTRAL STREET, P.O. BOX 782				
ROWLEY, MA 01969		WRIT	TEN OPINION C) ALTUODITY
		INTERNATION	AL SEARCHING	AUTHORITI
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	01 80	AD OTTO
Applicant's or agent's file reference		FOR FURTHER AC	LIOH	AR 2000
		•	e paragraph 2 below	
MEDIAS01.022 International application No. Inte	rnational filing date (a	lay/month/year) P	riority date (day/mon	ith/year)
PCT/US05/00201 06:	January 2005 (06.01.20		6 January 2004 (06.0	1.2004)
International Patent Classification (IPC) or bot	th national classification	n and IPC		
PC(7): G06F 7/04,17/30;G06K 9/00 and US (C1.: 726/32			
Applicant				
MEDIASEC TECHNOLOGIES, GMBH				
1. This opinion contains indications relating	to the following items	3:		
Box No. I Basis of the opin	nion	,		
Box No. II Priority				
Box No. III Non-establishm	ent of opinion with reg	gard to novelty, inventi	ive step and industria	l applicability
Box No. IV Lack of unity of	f invention			
Dow No. V. Reasoned states	ment under Rule 43bis	.1(a)(i) with regard to a ns supporting such stat	novelty, inventive ste tement	p or industrial
Box No. VI Certain docume				
	in the international ap	plication		
	ations on the internation			
Box No. VIII Certain observe	auons on the internation			
2. FURTHER ACTION			no considered to be	a written opinion of the
2. FURTHER ACTION If a demand for international preliminal International Preliminary Examining Authority other than this one to be the that written opinions of this International	Aumority (IFEA) C IPEA and the chosen	IPEA has notified the	e International Burea	e applicant chooses an under Rule 66.1bis(b)
If this opinion is, as provided above, of IPEA a written reply together, where a of Form PCT/ISA/220 or before the exp	considered to be a wrippropriate, with amen biration of 22 months f	tten opinion of the IP dments, before the expron the priority date,	EA, the applicant is piration of 3 months whichever expires lat	invited to submit to the from the date of mailing ter.
For further options, see Form PCT/ISA	/220.	•		
101 Immor obmorph and a comment				
3. For further details, see notes to Form P	CT/ISA/220.			
Name and mailing address of the ISA/ US	Date of comp	letion of this opinion	Authorized officer	
Mail Stop PCT, Attn: ISA/US				D MALLY OLD
Commissioner for Patents P.O. Box 1450	VI I Oblamy 2		Telephone No. (57	R. Matthew 11) 272-3795
Alexandria, Virginia 22313-1450			retebuone 140. (2)	

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.
PCT/US05/00201

	T Design of this emission
Box No	o. I Basis of this opinion
	the Above and this opinion has been established on the basis of:
1. With i	regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
ъ.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Adı	ditional comments:
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International application No. PCT/US05/00201

applicability; citations and expla	•				
Statement	Claims	NONE			 YES
Novelty (N)	Claims				 NO
Inventive step (IS)	Claims	NONE			 YES NO
	Claims	1-54			 NO
- · · · · · · · · · · · · · · · · · · ·	Claims	1-54			 YES
Industrial applicability (IA)		NONE			 NO
	•			<u>.</u>	
Citations and explanations:					
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Form PCT/ISA/237 (Box No. V) (April 2005)

International application No. PCT/US05/00201

Supplemental Box	•		
In case the space in any of the preceding boxes is not sufficient.			
			

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Scanning the copy detection pattern to produce a digital representation thereof, and using one or more global properties of the digital representation of the scanned copy detection pattern to make at least a preliminary determination of whether the analog form is an originalanalog form, the preliminary determination being made without reference to a digital representation of the original of the analoge form's copy detection pattern (Par. 0033-0047).

Regarding claim 43, Zeller discloses a method of determining a copying relationship between digital representations, each of the digital representations including a portion that is sensitive to alteration produce by a copying process and the method

comprising the steps of: Modifying a portion to make the portion more comparable with the other portion by taking the alterations into account, and comparing the portions to determine the copying relationship (Par. 0094-0106).

Regarding claim 44-51, Zeller discloses a visual authentication pattern for a document, the visual authentication pattern having high entropy and being sensitive to the effects of print and scan operations and being characterized in that: the visual authentication pattern is subdivided into units which are distributed across the document (Par. 0029-0047).

International application No. PCT/US05/00201

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.

Regarding claim 53. Zeller discloses a digital representation of an analog signal, the digital representation

Regarding claim 53, Zeller discloses a digital representation of an analog signal, the digital representation being characterized in that: the digital representation of a copy detection signal that is sensitive to transformations produced by digital-to-analog and analog-to-digital conversions whereby the representation of the copy detection signal may be used to determine whether another digital representation of the analog signal was made by digitizing an analog signal produced from the digital representation (Par. 0189-0198).

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